

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
 United States Patent and Trademark
 Office
 Box PCT
 Washington, D.C. 20231
 ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

Date of mailing (day/month/year)

21 January 2000 (21.01.00)

International application No.

PCT/US99/06537

Applicant's or agent's file reference

0002

International filing date (day/month/year)

19 April 1999 (19.04.99)

Priority date (day/month/year)

24 April 1998 (24.04.98)

Applicant

FANG, Fang

1. The designated Office is hereby notified of its election made:



in the demand filed with the International Preliminary Examining Authority on:

18 November 1999 (18.11.99)



in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
 34, chemin des Colombettes
 1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

R. Chrem

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

16
REC'D 15 AUG 2000

WIPO PCT

Applicant's or agent's file reference 19815-2PC	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US99/06537	International filing date (day/month/year) 19 APRIL 1999	Priority date (day/month/year) 24 APRIL 1998
International Patent Classification (IPC) or national classification and IPC Please See Supplemental Sheet.		
Applicant FANG, FANG		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.


2. This REPORT consists of a total of 4 sheets.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 0 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of report with regard to novelty, inventive step or industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 18 NOVEMBER 1999	Date of completion of this report 17 JULY 2000
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer  DONNA C. WORTMAN, Ph.D.
Facsimile No. (703) 305-3230	Telephone No. (703) 308-0196

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/06537

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☒ the description:
pages 1-24 , as originally filed
pages NONE , filed with the demand
pages NONE , filed with the letter of _____
- ☒ the claims:
pages 25-26 , as originally filed
pages NONE , as amended (together with any statement) under Article 19
pages NONE , filed with the demand
pages NONE , filed with the letter of _____
- ☒ the drawings:
pages NONE , as originally filed
pages NONE , filed with the demand
pages NONE , filed with the letter of _____
- ☒ the sequence listing part of the description:
pages NONE , as originally filed
pages NONE , filed with the demand
pages NONE , filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE
- ☒ the claims, Nos. NONE
- ☒ the drawings, sheets/fig NONE

5. ☐ This report has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

**Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/06537

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. statement**

Novelty (N)	Claims <u>1-15</u>	YES
	Claims <u>NONE</u>	NO
Inventive Step (IS)	Claims <u>9-15</u>	YES
	Claims <u>1-8</u>	NO
Industrial Applicability (IA)	Claims <u>1-15</u>	YES
	Claims <u>NONE</u>	NO

2. citations and explanations (Rule 70.7)

Claims 1-4 lack an inventive step under PCT Article 33(3) as being obvious over US Patent No. 5,723,826 to Dower et al. US Patent No. 5,723,826 discloses methods for screening for complementary peptide ligands to a target protein, using a collection of nucleic acids that may be based on either a known or an unknown ligand sequence, where the nucleic acid sequences are expressed as fusion proteins on surface of bacteriophages.

Claims 5-8 lack an inventive step under PCT Article 33(3) as being obvious over US Patent No. 5,723,826 to Dower et al. in view of US Patent No. 5,077,195 to Blalock et al. The relevant teachings of US Patent No. 5,723,826 are set forth above. US Patent No. 5,723,826 does not disclose complementary peptides that are anti-sense peptides. US Patent No. 5,077,195 discloses determining anti-sense peptide ligands for a protein of interest. It would have been obvious to one of ordinary skill in the art at the time the invention was made to design anti-sense peptides of US Patent No. 5,077,195 for expression and screening by the method of US Patent No. 5,723,826 because US Patent No. 5,077,195 establishes the interest in designing and making anti-sense peptide ligands and because US Patent No. 5,723,826 provides a generally applicable and successful method for screening for complementary peptide ligands to a target protein.

Claims 1-15 meet the criteria set out in PCT Article 33(2) because the prior art does not anticipate the claimed screening and treatment methods.

Claims 9-15 meet the criteria set out in PCT Article 33(3) because the prior art does not teach or fairly suggest the claimed screening and treatment methods based on binding to the framework 2 region of an immunoglobulin molecule.

Claims 1-15 meet the criteria for industrial applicability set out in PCT Article 33(4) because the claimed methods can be used to screen for peptides of interest that may be used to treat autoimmune or allergic conditions.

(Continued on Supplemental Sheet.)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/06537

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below:

IPC(7): C12Q 1/68; C12P 19/34; A61K 39/395, 38/02 and US Cl.: 435/6, 91.2; 424/131.1, 143.1; 514/2

V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):

_____ NEW CITATIONS _____

NONE

International application No.
PCT/US99/06537

IPC(6) : C12Q 1/68; C12P 19/34; A61K 39/395, 38.02

US CL 435/6, 912; 424/131.1, 143.1; 514/2

According to International Patent Classification (IPC) or to both national classification and IPC

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 4350, 91.2; 424/131.1, 143.1; 5142

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS: DerwentWEST: Dialog

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,077,195 A (BLALOCK et al.) 31 December 1991, see entire document, especially col. 22, lines 52-57.	1-15
Y	US 5,723,286 A (DOWER et al.) 03 March 1998, see entire document.	1-15
Y	US 5,081,584 A (OMICHIINSKI et al.) 14 January 1992, see entire document.	1-15
Y	US 5,223,409 A (LADNER et al.) 29 June 1993, see entire document.	1-15

☐ Further documents are listed in the continuation of Box C.

See patent family annex.

• Special categories of cited documents:

•T•

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

A document defining the general state of the art which is not considered to be of particular relevance

•x•

E earlier document published on or after the international filing date

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered as prior art in itself, as

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